Quiz #18

November 7, 2002

Do any three of these. If you do not omit a question, then the first three questions will be graded.

1. \( \lim_{x \to 0} \frac{e^{4x} - 1}{\cos x} = \)

2. \( \lim_{x \to \frac{\pi}{2}} (2x - \pi) \sec(x) = \)

3. \( \lim_{x \to \infty} \frac{x^3 + 2x + e^{2x}}{x^2 + 7x + e^{3x}} = \)

4. \( \lim_{x \to 0} (1 - x)^{2/x} = \)